

CLAIM AMENDMENTS

1 1. (currently amended) A fenestrated asymmetric
2 intracardiac device for the completion of total cavopulmonary
3 anastomosis through cardiac catheterization, the device comprising
4 a bifurcated tubular conduit formed by a first lower section and a
5 second upper section both centered on and extending along a common
6 warped axis having a radius of curvature between 35° and 45°, the
7 first section being a tubular mesh covered at least in some parts
8 by an impermeable polymer with ~~a curvature between 35°-45°~~ and
9 having

10 a lower end of substantially circular cross-sectional
11 shape with a diameter between 16-20 mm,
12 an upper end having a progressively flattened and a
13 substantially oval cross-sectional shape, the
14 upper end and lower end both being of
15 substantially the same cross-sectional area
16 along their full axial lengths, and

17 a wall formed with at least one closable fenestration
18 that connects an interior of the conduit with
19 the exterior,

20 the second upper section being a tubular mesh covered at least
21 partially by an impermeable polymeric material and having a cross-
22 sectional shape that is oval and tapers upward to a diameter of
23 between 10-13 mm, the second section bifurcating upward into two
24 branches one of which is longer than the other [[,]] and extends

25 along the warped axis, ~~and is of substantially circular and uniform~~
26 ~~cross-sectional shape,~~ the other branch being formed with a short
27 laterally projecting extension of circular cross-sectional shape
28 ~~with a diameter between 10-13 mm,~~ the branches forming with the
29 conduit first lower portion a distorted "Y", each branch having a
30 mesh of thread at least partially covered by an impermeable
31 polymeric material and being formed unitarily with the second upper
32 section, the conduit being between 60-75 mm long overall, the one
33 branch being between 18-25 mm long, and the other branch being
34 between 4-8 mm long, the short branch having a wall that intercepts
35 between 50%-70% of blood flowing up through the tubular conduit
36 from its lower end, the lower end being constructed for connection
37 with a lower vena cava and a hepatic vena with the upper and lower
38 sections of the tubular conduit configured to be lodged inside the
39 right atrium, one branch being sized to be tightly lodged inside a
40 left pulmonary artery and forming an obstruction with regard to a
41 main pulmonary artery, the other branch being configured to be
42 lodged at a base of a right pulmonary artery.

1 2. (previously presented) The fenestrated asymmetric
2 intracardiac device according to claim 1 wherein the first lower
3 section and the second upper section form a one-piece tubular body
4 made at least partially of a series of threads forming a mesh.

1 3. (currently amended) The fenestrated asymmetric
2 intracardiac device according to claim 1 wherein the first lower
3 section has a mesh part that is independent of ~~and that can~~
4 ~~telescope in~~ the second upper section, the first section being
5 axially deployable ~~and settable~~ within the second section, whereby
6 the first section ~~[[is of]]~~ can be telescoped to variable length .

1 4. (previously presented) The fenestrated symmetric
2 intracardiac device according to claim 1 wherein the first lower
3 section has a mesh made of more resistant filaments than the second
4 section so that first lower section is of less flexibility than the
5 second upper section.

1 5. (currently amended) The fenestrated asymmetric
2 intracardiac device according to claim 1 wherein the ~~lower end of~~
3 ~~first section has a~~ mesh ~~structure without~~ of the lower end of the
4 first section is free of the cover of impermeable polymeric cover
5 and material and is thereby rendered permeable ~~by the~~ to blood flow
6 ~~that flows up~~ from a lower vena cava and hepatic vena.

1 6. (previously presented) The fenestrated asymmetric
2 intracardiac device according to claim 1 wherein the one branch of
3 the bifurcation is formed by a mesh made of threads covered by an
4 impermeable polymeric material, the one branch forming with the
5 second upper section a tubular wall impermeable to blood flow, the
6 other branch not being covered by the impermeable material and
7 being permeable.

1 7. (currently amended) The fenestrated asymmetric
2 intracardiac device according to claim 1 wherein ~~an elastically~~
3 ~~deformable~~ the mesh material is made of linked metallic threads at
4 ~~least partially covered by polytetrafluoroethylene, forms all of~~
5 ~~the device forming an elastically deformable conduit, the~~
6 impermeable polymeric material being polytetrafluoroethylene.